SWP Water Quality Summary

July 17, 2003

Total Dissolved Solids: TDS concentrations in all six locations at California Aqueduct, North and South Bay Aqueducts were slightly lower this month compared to June. TDS concentrations at Banks, Checks 29 and 41, Devil Canyon, Barker slough and Vallecitos were below the article 19, monthly objective. A minimum concentration of 97 mg/l was recorded at Banks Pumping Plant on July 14, 2003, a decrease of 58 mg/l compared to June minimum.

Bromide: The concentrations of bromide were lower at all locations. However, few peaks of 0.135 mg/l and 0.107 mg/l were detected at Checks 41 and 29. The concentration at Devil Canyon decreased, but not as low as the other locations. Barker slough had the lowest concentrations of 0.024 mg/l, recorded on June 26.

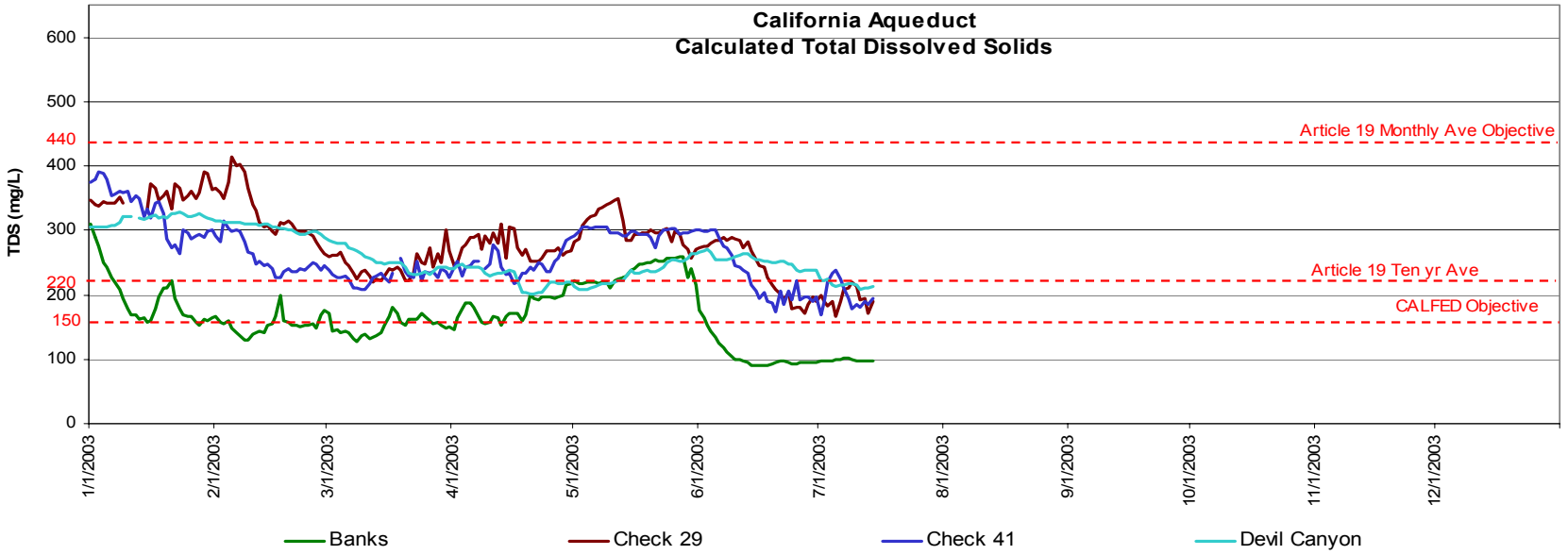
Turbidity: Turbidity at the North Bay Aqueduct remains high compared to the California Aqueduct. Checks 29 and 41 exhibited similar trends between June and July. Banks Pumping Plant turbidity peaks were more pronounced compared to Devil Canyon, Checks 29 and 41, probably due to high pumping and wind induced turbulence. However, Barker Slough, North Bay Aqueduct, had the highest concentrations of 98 NTU.

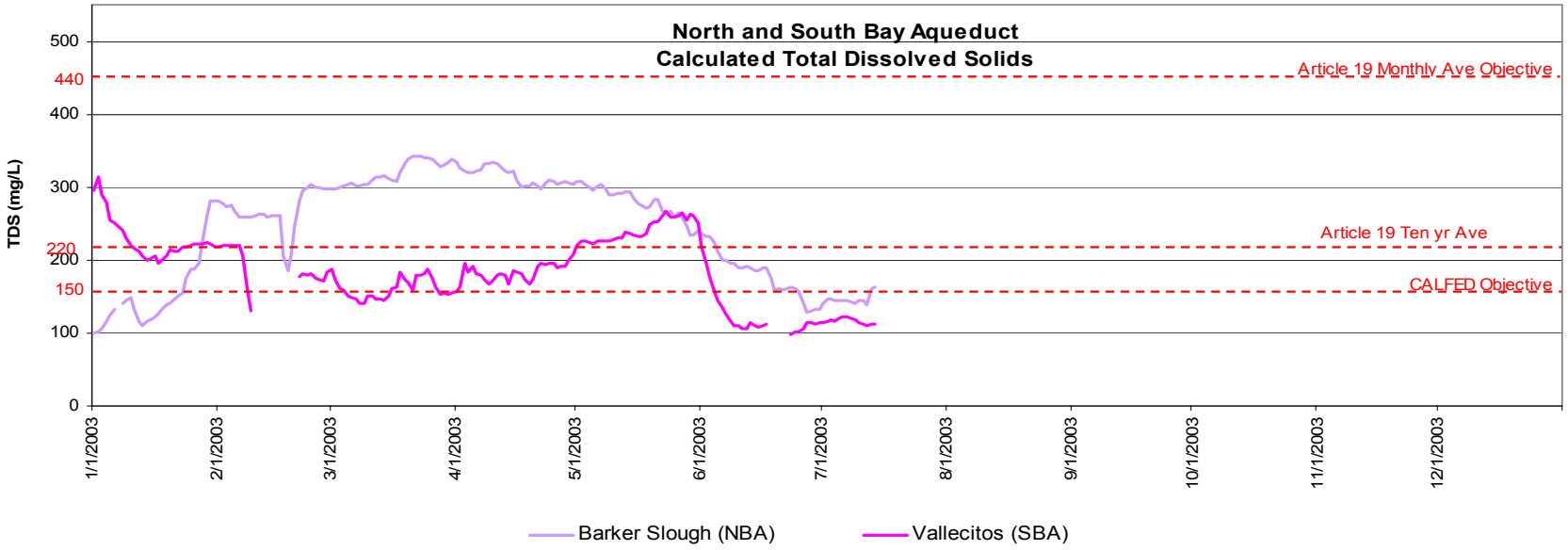
Dissolved Organic Carbon: DOC concentrations dropped below the CalFed TOC Objective at all locations. The highest level (about 3.5 mg/l) this month occurred at Check 13 and maybe related to San Luis releases.

Taste and Odor Compounds: MIB and geosmin were low at Banks Pumping Plant, and in the South Bay and Coastal Branch Aqueduct. Elevated concentrations of geosmin 170 mg/l were detected in Castaic Lake and copper sulfate was applied on July 1, to control the odor causing blue green algae. Geosmin in Lake Perris declined due to an apparent collapse of the algae bloom, while levels are beginning to increase in the California Aqueduct below Check 41.

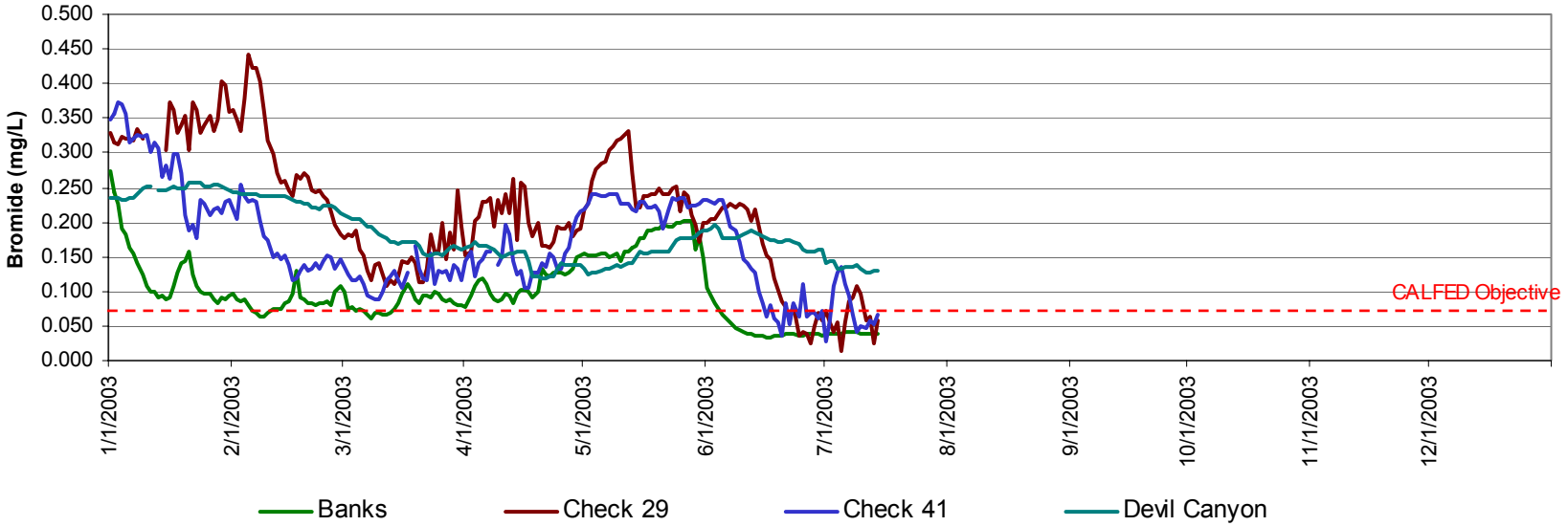
Ground Water Pump-in: No ground water pump-in during May through mid July.

For more information refer to: http://wwwomwq.water.ca.gov **and**
http://wwwdpla.ca.gov/supply/sampling/mwq/main.htm

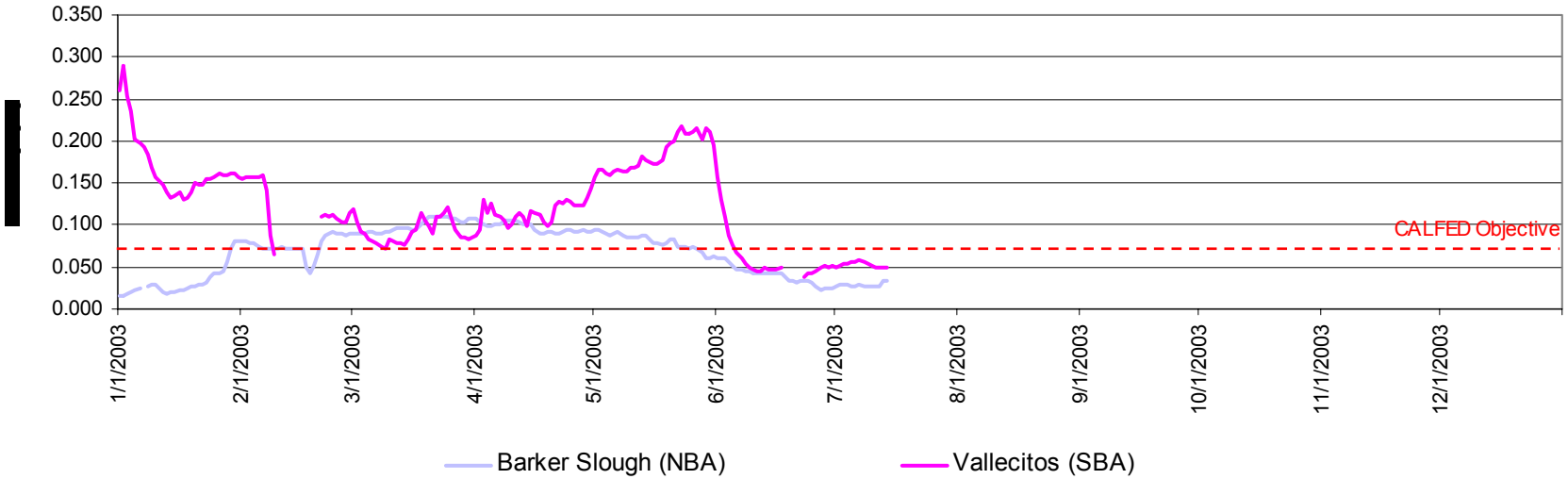

California Aqueduct
Calculated Total Dissolved Solids
TDS (mg/L)
600
500
440
400
300
220
200
150
100
0
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon

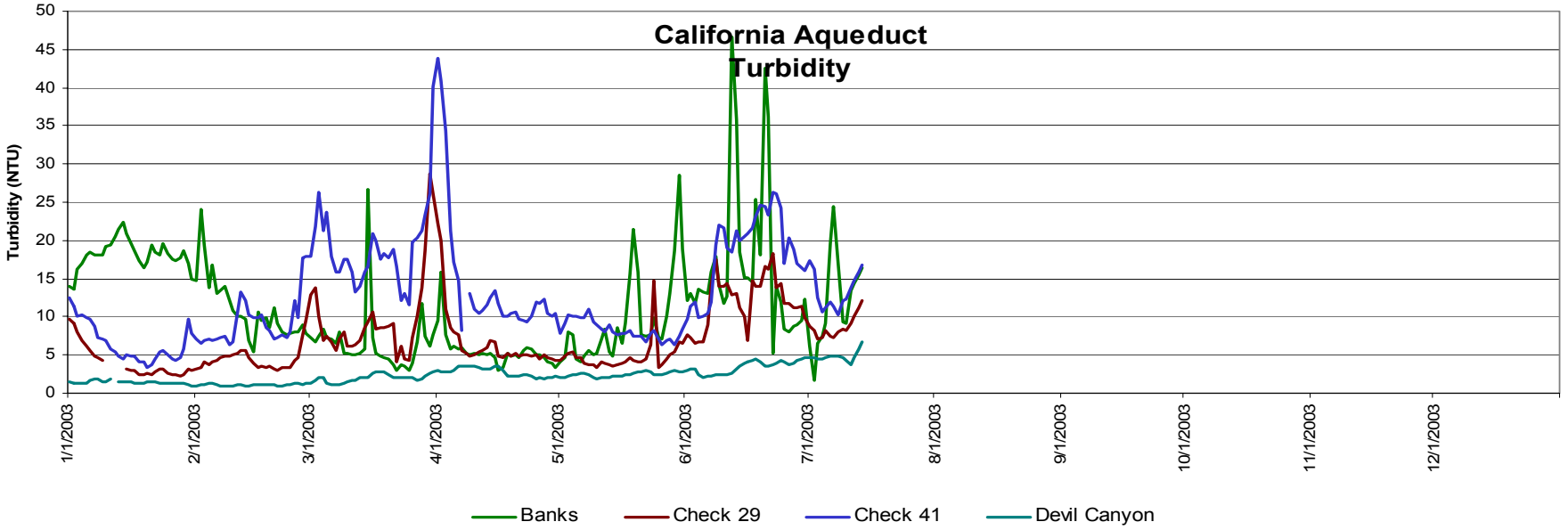

North and South Bay Aqueduct
Calculated Total Dissolved Solids
TDS (mg/L)
500
440
400
300
220
200
150
100
0
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)

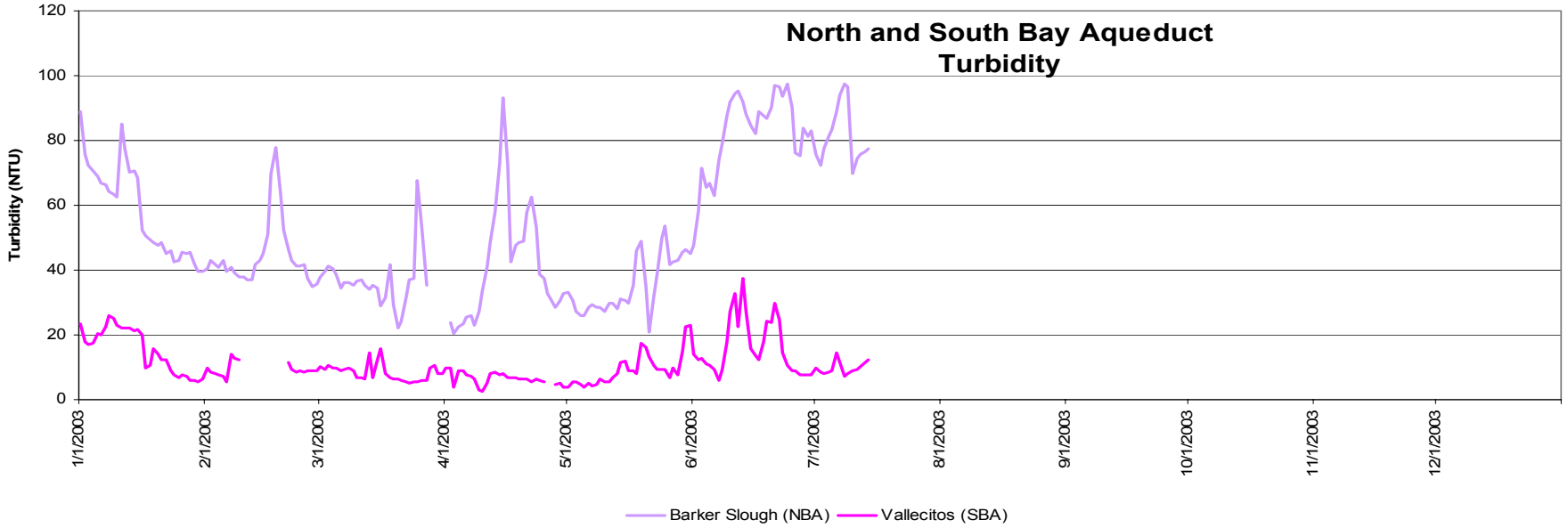
California Aqueduct
Calculated Bromide

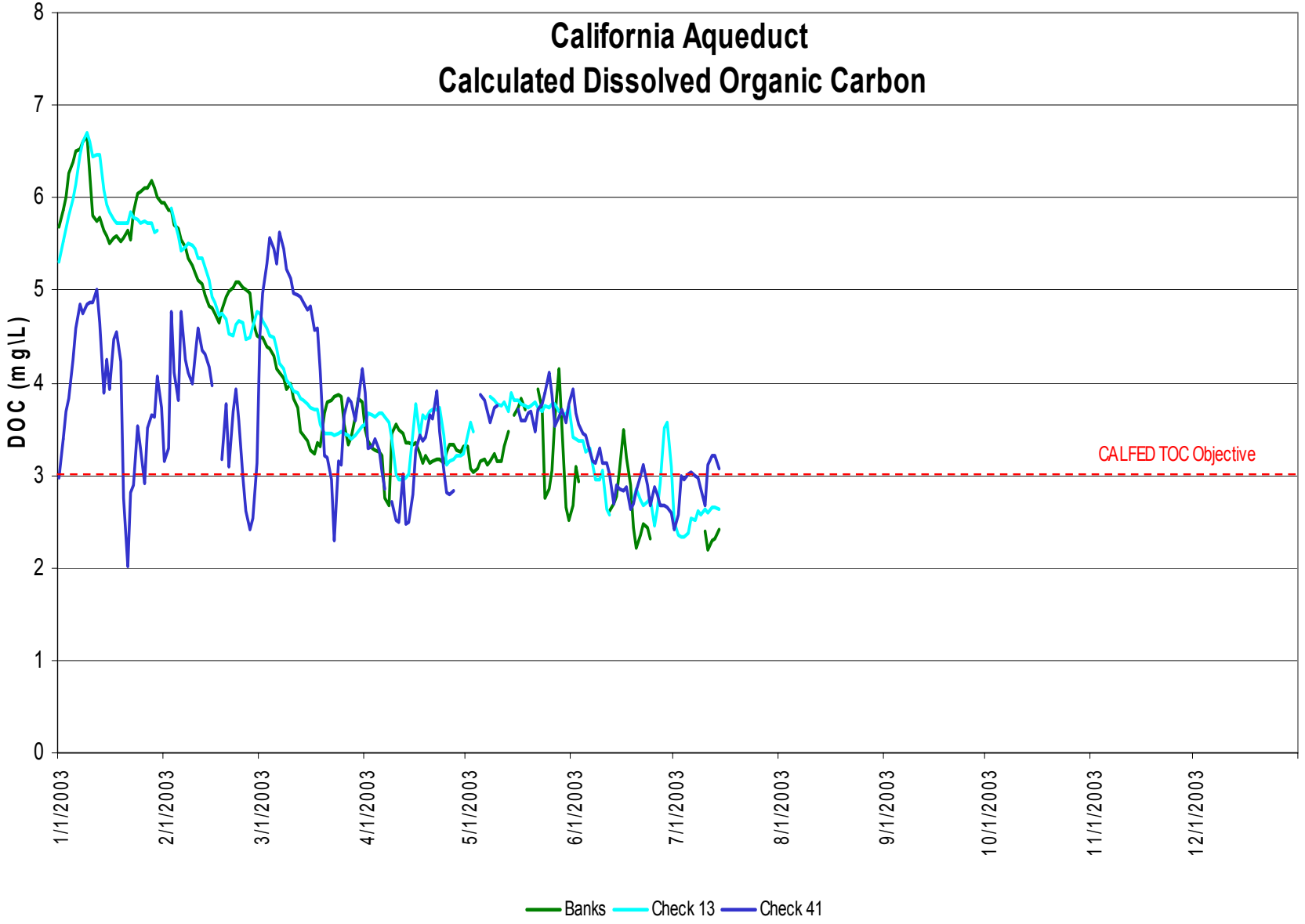


North and South Bay Aqueduct
Calculated Bromide




California Aqueduct
Turbidity
Turbidity (NTU)
50
45
40
35
30
25
20
15
10
5
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon


North and South Bay Aqueduct
Turbidity
Turbidity (NTU)
120
100
80
60
40
20
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)


California Aqueduct
Calculated Dissolved Organic Carbon
DOC (mg\L)
8
7
6
5
4
3
2
1
0
CALFED TOC Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 13
Check 41